



# PRODUCT SPECIFICATIONS

**CONVERGENT  
CONNECTIVITY  
TECHNOLOGY**

## CAT5ENP25

- Description:** Unshielded twenty-five twisted pair Category 5e Enhanced Horizontal Cable with a PVC jacket.
- Standards/Listings:** ANSI/TIA/EIA 568B.2.1 Category 5e Swept to 350 MHz, ISO/EIC 11801 Category 5e, NEC Article 800, UL 1666: CMR Riser, ETL Electrically Verified to ANSI/TIA/EIA 568B.2.1 Category 5e, C(ETL)US CMR, RoHS Compliant
- Applications:** Supports all category 5 applications including Ethernet 100BASE-TX, 100BASE-VG and 155 ATM. Particularly suited as 622 ATM. Wideband, and Ethernet 10000BASE-T.

### CONSTRUCTION

- Conductor:** 24 AWG Solid Bare Copper
- Number of Conductors or Pairs:** 25 Pair
- Jacket Material:** Polyvinyl Chloride
- Nominal Overall Cable Diameter:** 0.500 inch (12.700 mm)
- Approximate Cable Weight:** 106 lb/1,000 ft.

### ELECTRICAL & PHYSICAL PROPERTIES

- Temperature Rating:** Installation: 0°C to 50°C  
Operation: -10°C to 60°C
- Velocity of Propagation:** 70%
- Mutual Capacitance:** 14 pF/ft Nominal
- Capacitance Unbalance:** 330 pF/ft maximum
- Maximum Conductor D.C.R.:** 28.6Ω/1,000 ft
- Maximum D.C.R. Unbalance:** 5%
- Maximum Delay Skew:** 45.0ns/100m
- Maximum Propagation Delay Skew:** 5.7ns/100m
- Characteristic Impedance:** From 0.772 MHz — 100 MHz 100 ± 15%  
From 101 MHz — 250 MHz 100 ± 22%  
From 201 MHz—350 MHz 100 ± 32%
- Insulation Colors:** See Table A

Issue Date: June '15 Revision: 2

**THE STRONGEST LINK IN YOUR SUPPLY CHAIN**

PHONE: 866-905-6744  
FAX: 845-651-3564

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[techsupport@cctcable.com](mailto:techsupport@cctcable.com)



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**Table A:**

Pair Number	Color Combination	Pair Number	Color Combination	Pair Number	Color Combination
1	White paired with Blue	10	Red paired with Gray	19	Yellow paired with Brown
2	White paired with Orange	11	Black paired with Blue	20	Yellow paired with Gray
3	White paired with Green	12	Black paired with Orange	21	Violet paired with Blue
4	White paired with Brown	13	Black paired with Green	22	Violet paired with Orange
5	White paired with Gray	14	Black paired with Brown	23	Violet paired with Green
6	Red paired with Blue	15	Black paired with Gray	24	Violet paired with Brown
7	Red paired with Orange	16	Yellow paired with Blue	25	Violet paired with Gray
8	Red paired with Green	17	Yellow paired with Orange		
9	Red paired with Brown	18	Yellow paired with Green		

### ELECTRICAL CHARACTERISTICS

Frequency	SRL	Return Loss	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
	dB	dB	dB(100m)	dB	dB	dB	dB	dB	dB
MHz	Minimum	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
1	23.0	20.0	2.0	65.3	62.3	63.8	60.8	63.3	60.3
4	23.0	20.3	4.0	56.3	53.3	51.7	48.7	52.3	49.3
8	23.0	20.5	5.7	51.8	48.8	45.7	42.7	46.1	43.1
10	23.0	25.0	6.4	50.3	47.3	43.8	40.8	43.9	40.4
16	23.0	25.0	8.2	47.3	44.3	39.7	36.7	39.1	36.1
20	23.0	25.0	9.2	45.8	42.8	37.7	34.7	36.6	33.6
25	22.0	25.0	10.4	44.3	41.3	35.8	32.8	33.9	30.9
31.25	21.1	23.6	11.7	42.9	39.9	33.9	30.9	31.2	28.2
62.5	18.1	21.5	16.9	38.4	35.4	27.8	24.8	21.5	18.5
100	16.0	20.1	21.9	35.3	32.3	23.8	20.8	13.4	10.4
250	12.0	17.3	36.8	34.3	32.3	15.8	12.8	----	----
300	11.2	16.8	40.9	33.2	31.2	14.2	11.2	----	----
350	10.6	16.3	44.8	32.2	30.2	12.9	9.9	----	----

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Signature: \_\_\_\_\_

Company: \_\_\_\_\_

Date: \_\_\_\_\_

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